AD736000

OCD STANDARD METHOD

FOR FALLOUT GAMMA RADIATION SHIELDING ANALYSIS — SEPTEMBER 1971
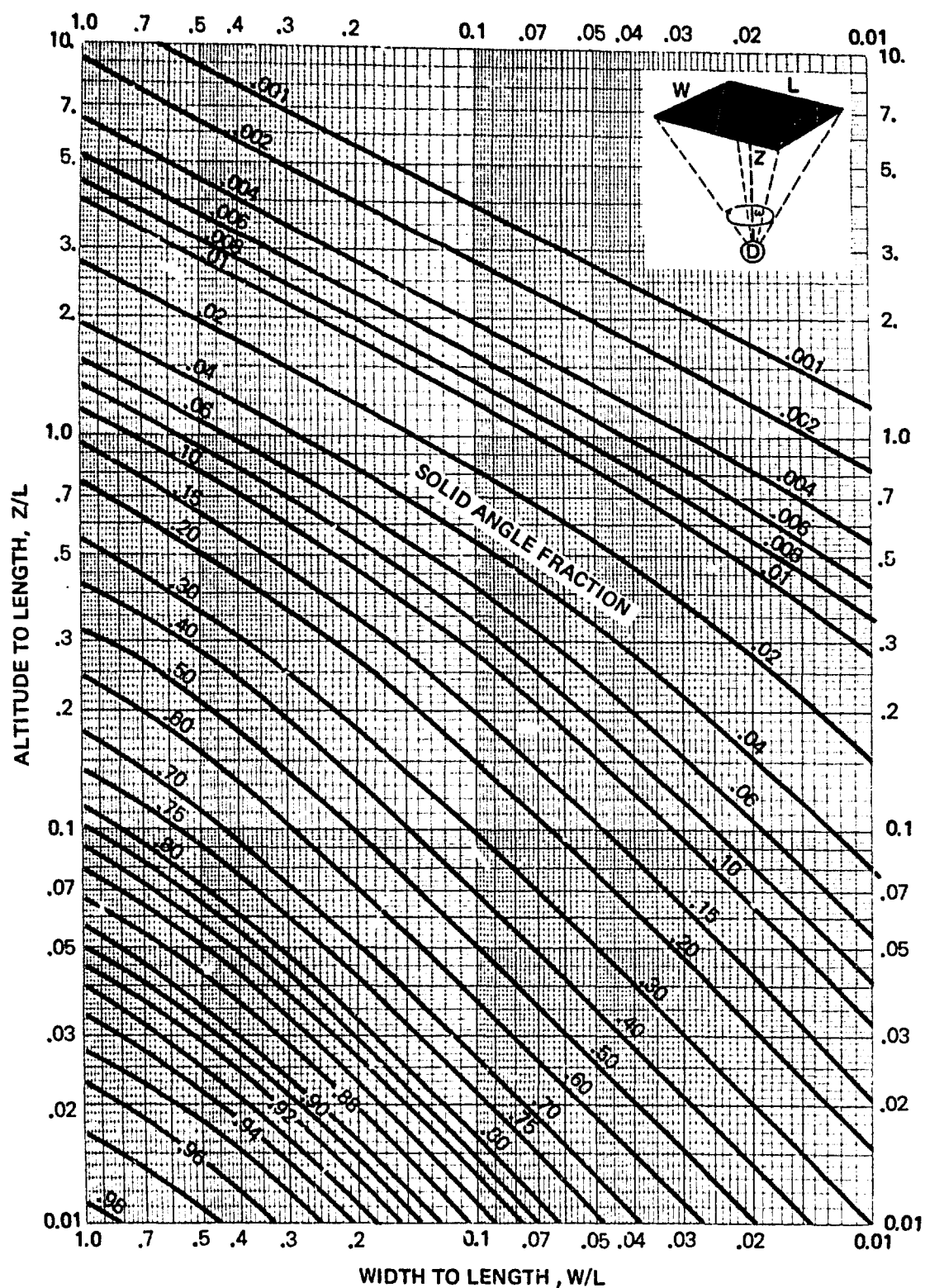
CHARTS

20050323120

CHART 1 A
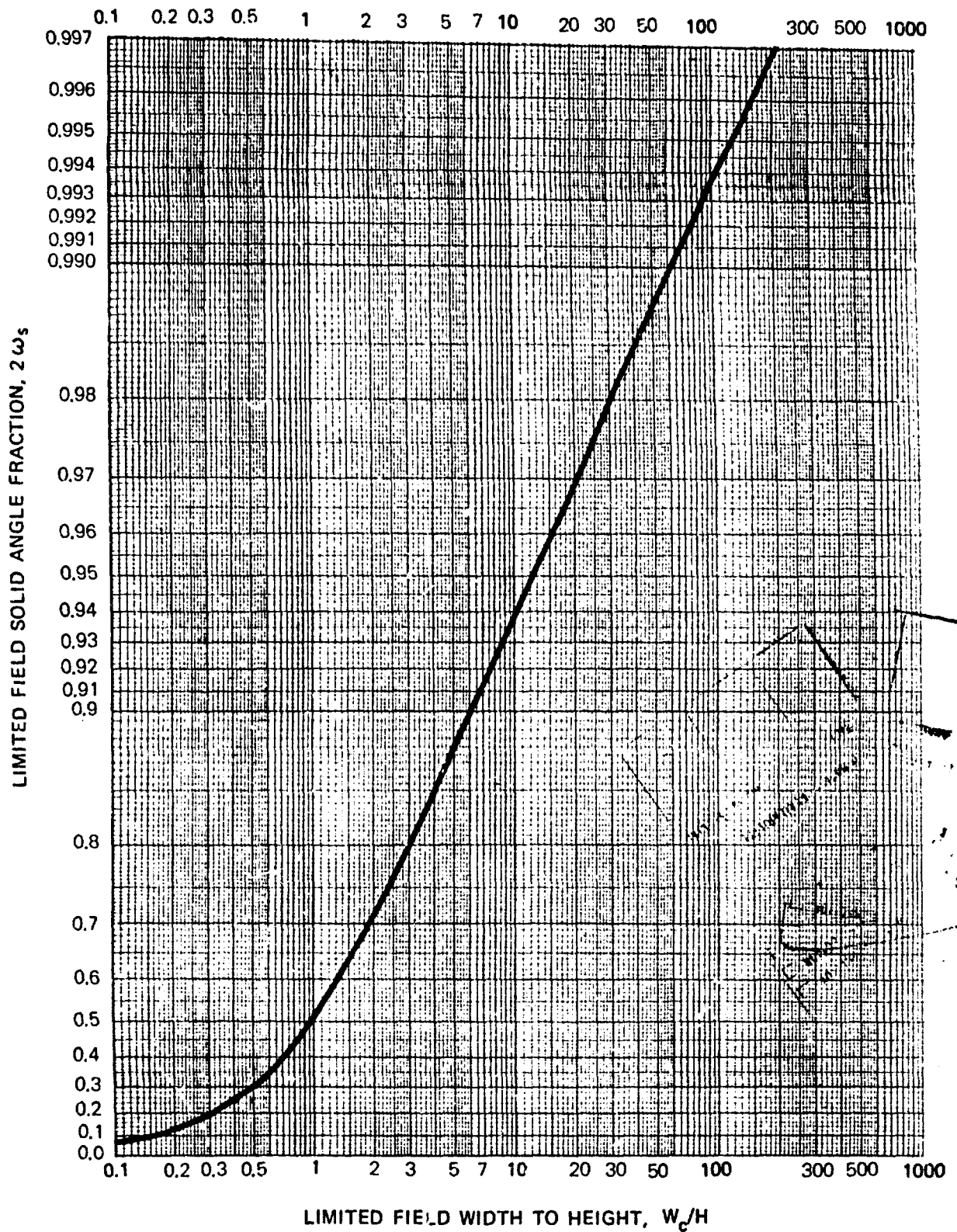SOLID ANGLE FRACTION,ω(W/L,Z/L)
C -2

CHART 1B
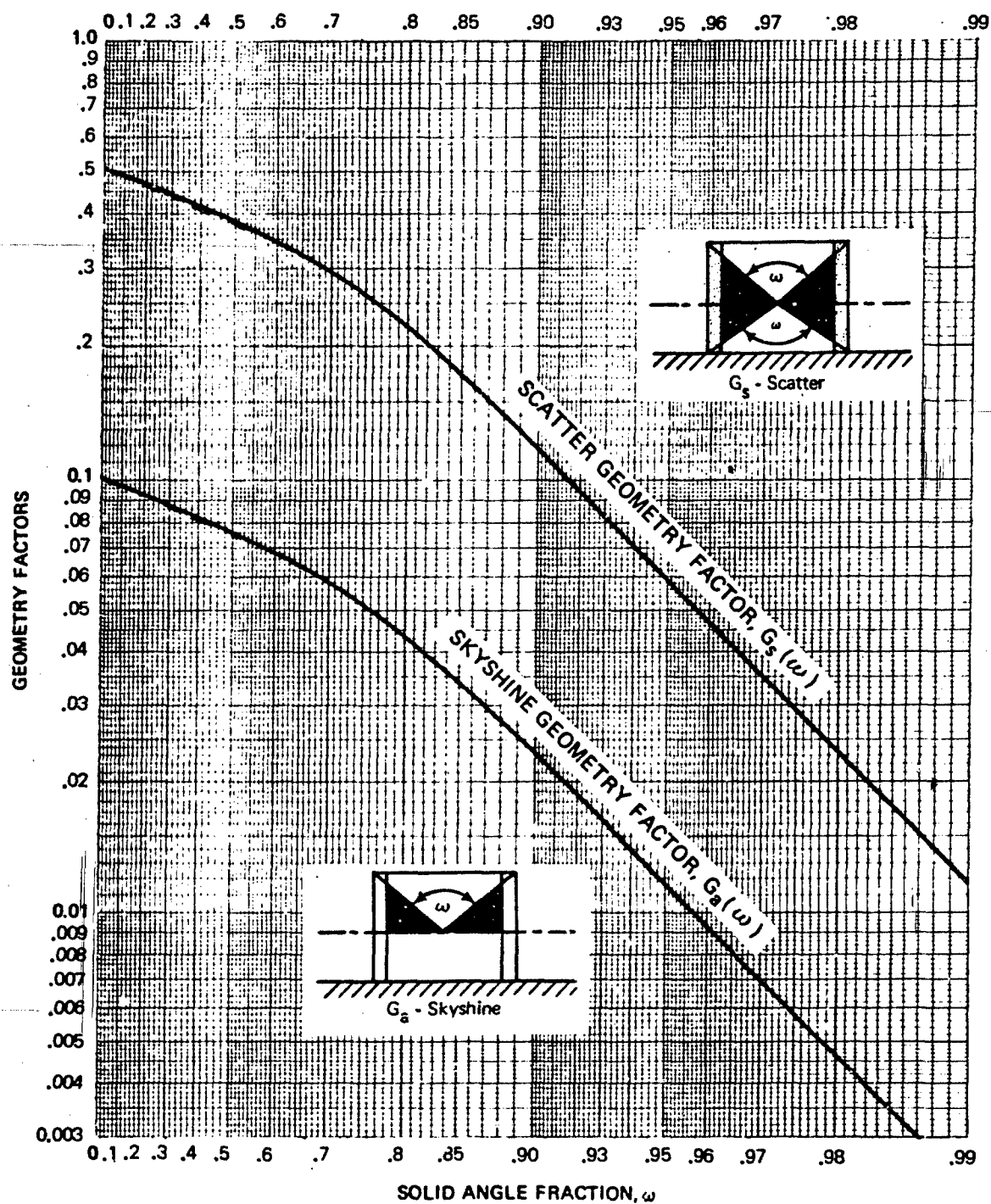LIMITED FIELD SOLID ANGLE FRACTION, $2\omega_s$
C-3

CHART 2

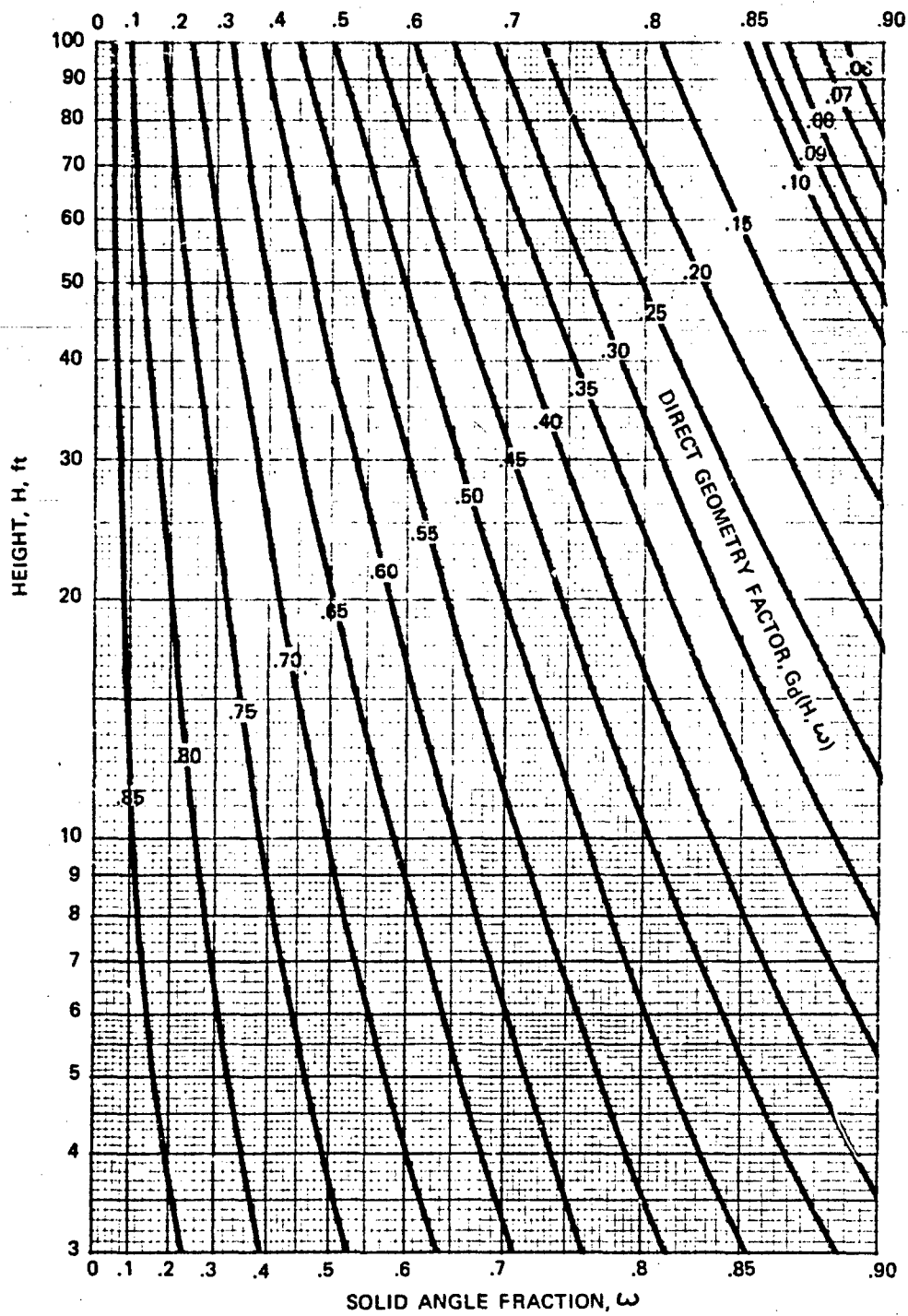GEOMETRY FACTORS - SCATTER, $G_s(\omega)$ AND SKYSHINE, $G_a(\omega)$

C-4

CHART 3A
GEOMETRY FACTOR - DIRECT, $G_d(H, \omega)$
C-5

HEIGHT, H, ft

.90 .92 .93 .94 .95 .96 .97 .98 .99

.010
.015
.02
.03
.04
.05
.06
.07
.08
.09
.10
.15
.20
.25
.30
.35
.40

G_d - Direct

DIRECT GEOMETRY FACTOR, $G_d(H, \omega)$

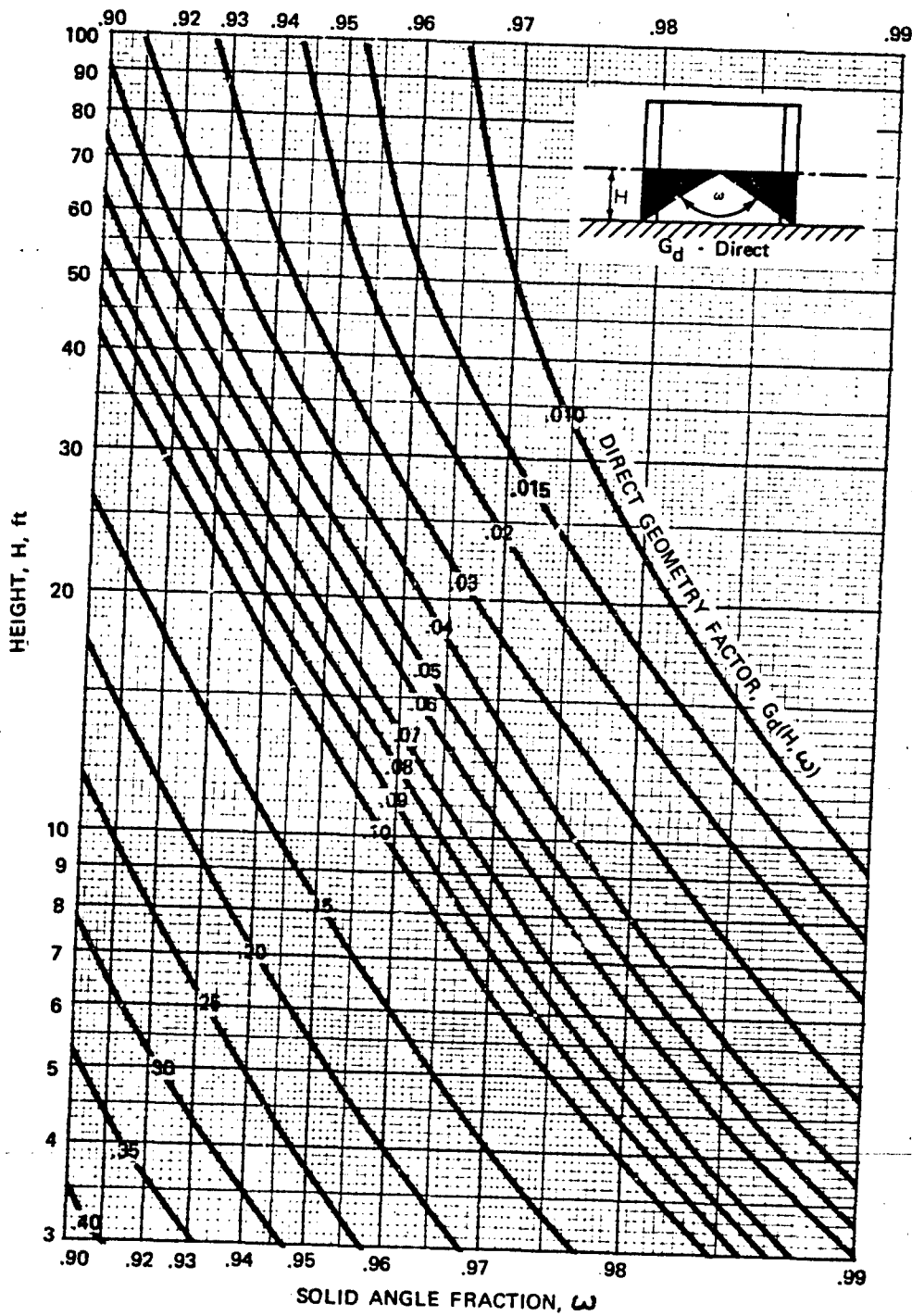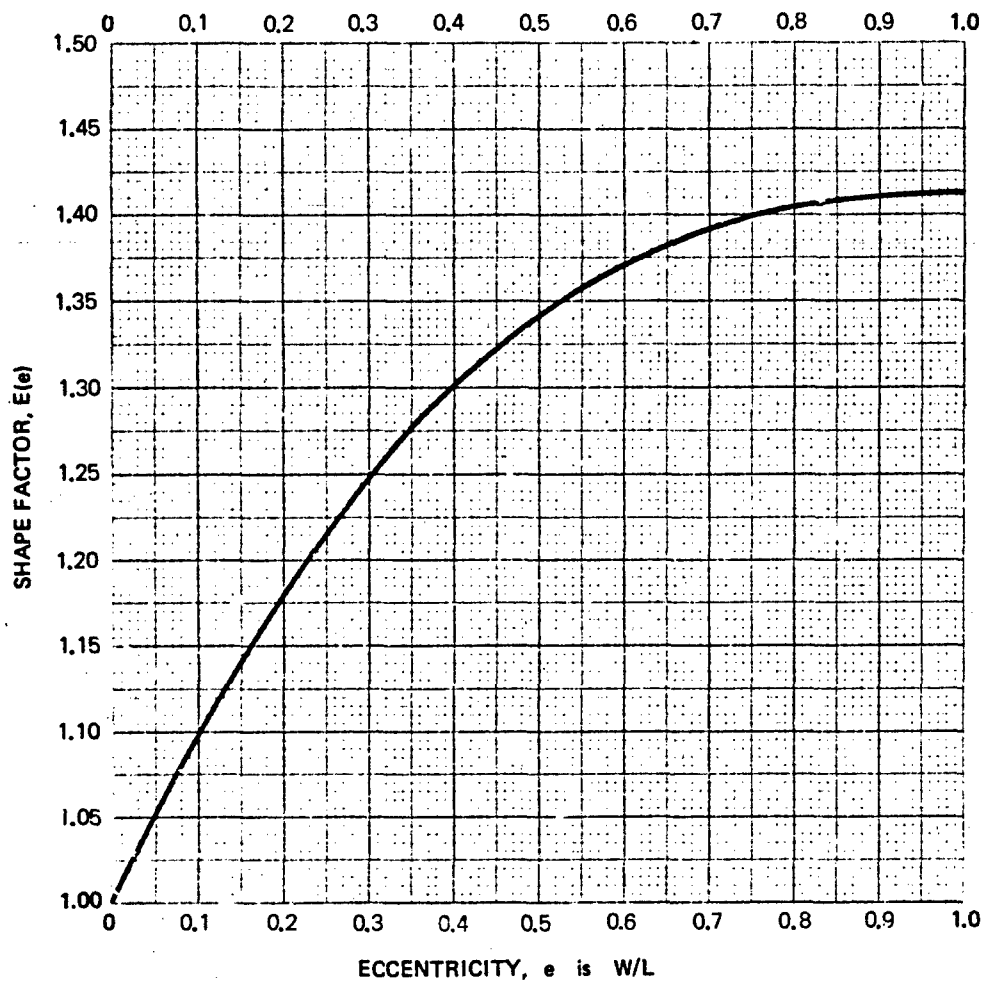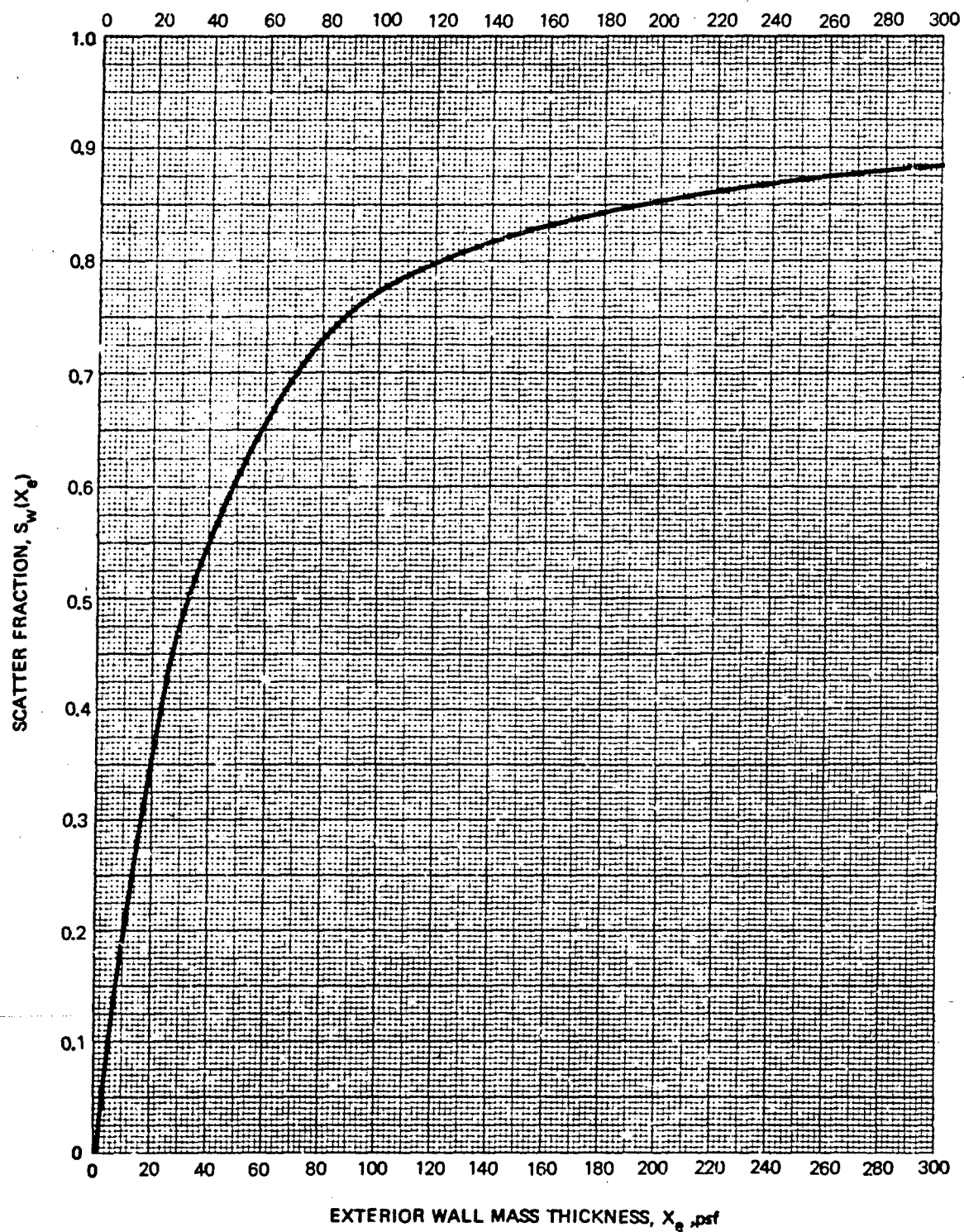SOLID ANGLE FRACTION, ω

CHART 3B
GEOMETRY FACTOR - DIRECT, $G_d(H, \omega)$
C-6

TR 20 - (VOL. 1)

E(e) FOR CIRCULAR STRUCTURES IS $\frac{\pi}{2}$ = 1.571

CHART 4
SHAPE FACTOR, E(e)
C-7

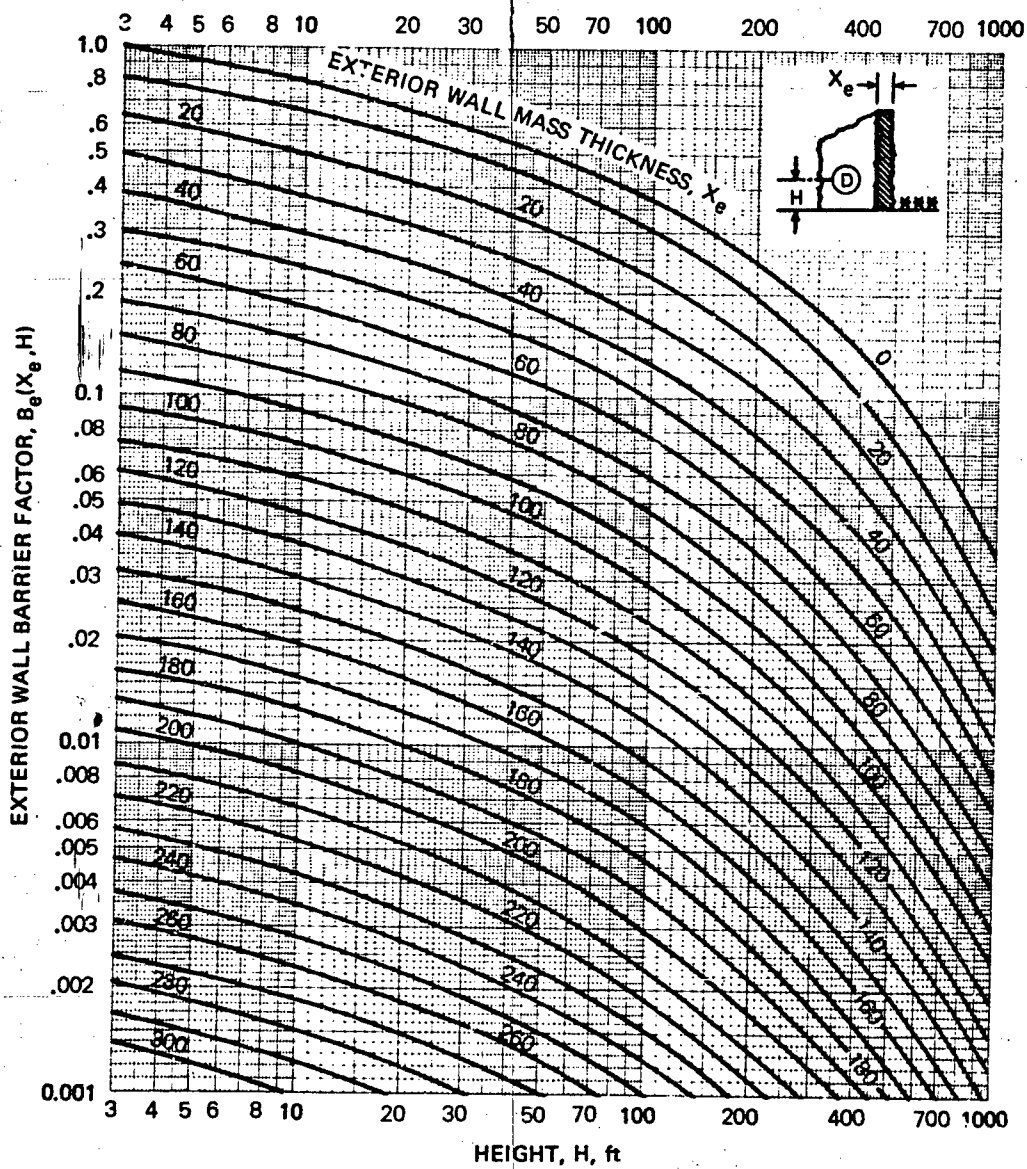EXTERIOR WALL MASS THICKNESS, X_e ,psf

CHART 5
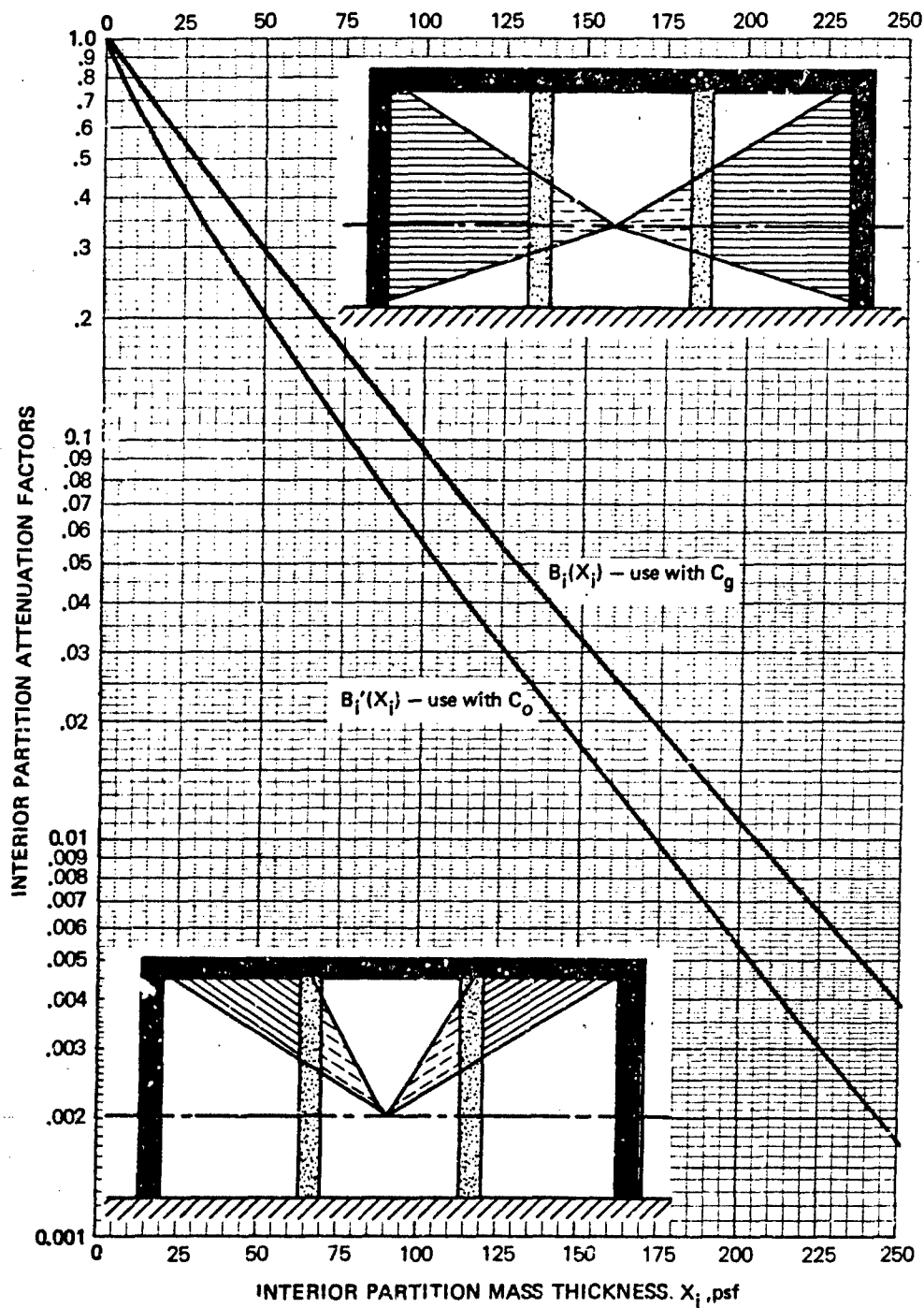
CHART 6

EXTERIOR WALL BARRIER FACTOR, $B_e(X_e, H)$

C-9

CHART 7
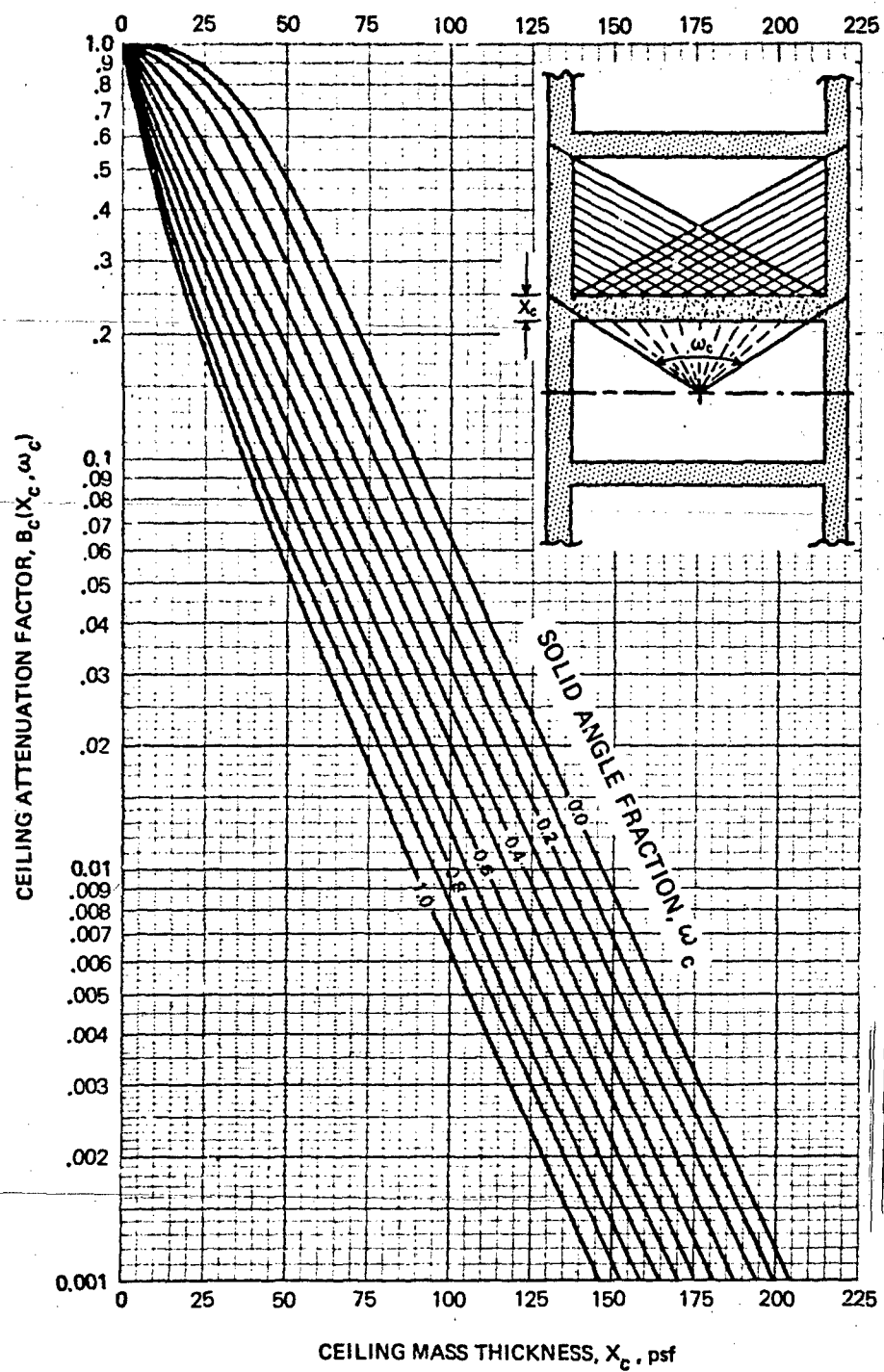**INTERIOR PARTITION ATTENUATION FACTORS, $B_i(X_i)$ and $B_i'(X_i)$**
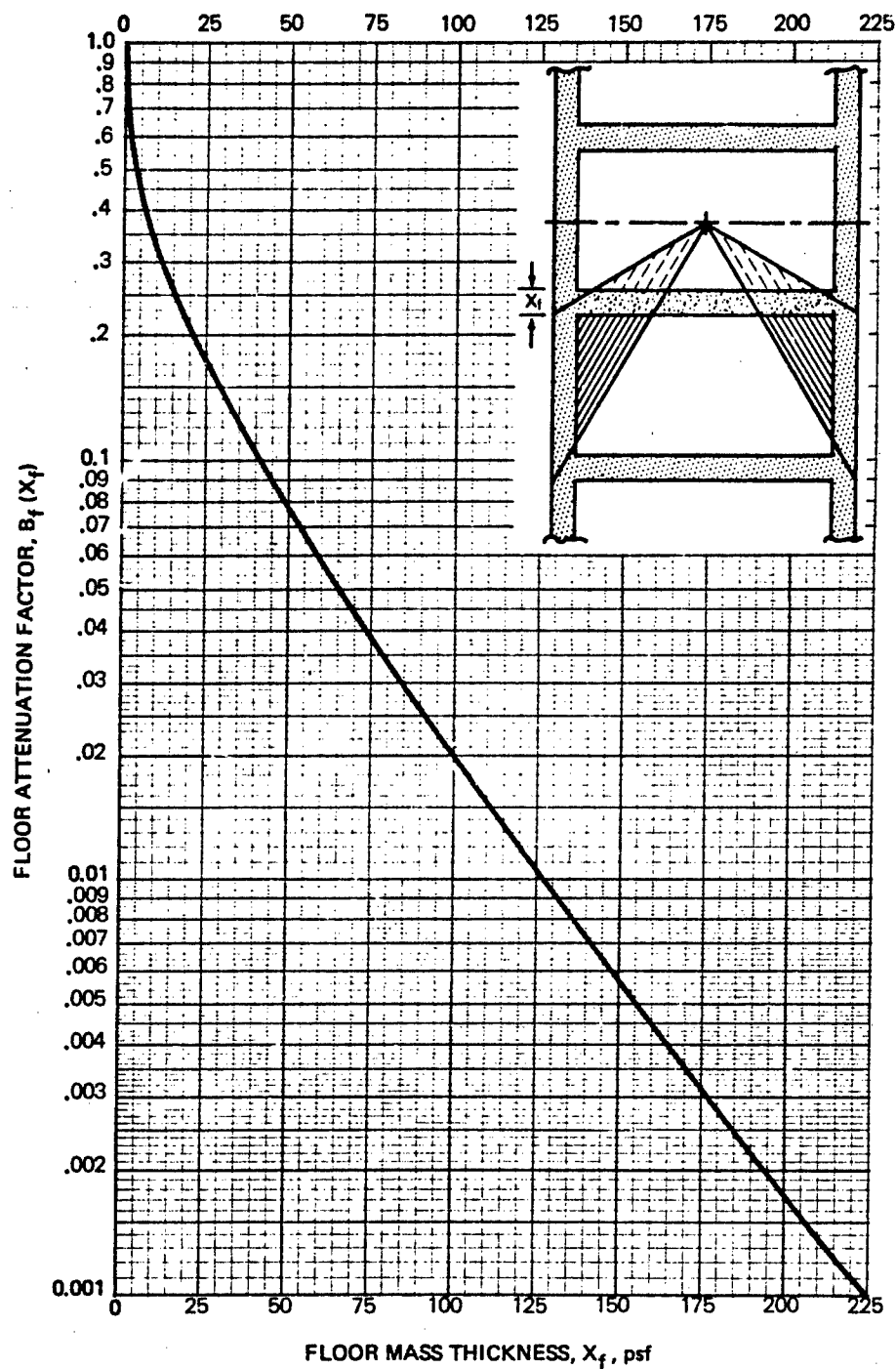C-10

CEILING ATTENUATION FACTOR, $B_c(X_c, \omega_c)$

CEILING MASS THICKNESS, X_c, psf

CHART 8A
CEILING ATTENUATION FACTOR, $B_c(X_c, \omega_c)$
C-11

FLOOR ATTENUATION FACTOR, $B_f(X_f)$

FLOOR MASS THICKNESS, X_f , psf

CHART 8B
FLOOR ATTENUATION FACTOR, $B_f(X_f)$
C-12

CHART 9

OVERHEAD CONTRIBUTION, $C_o(X_o, \omega)$
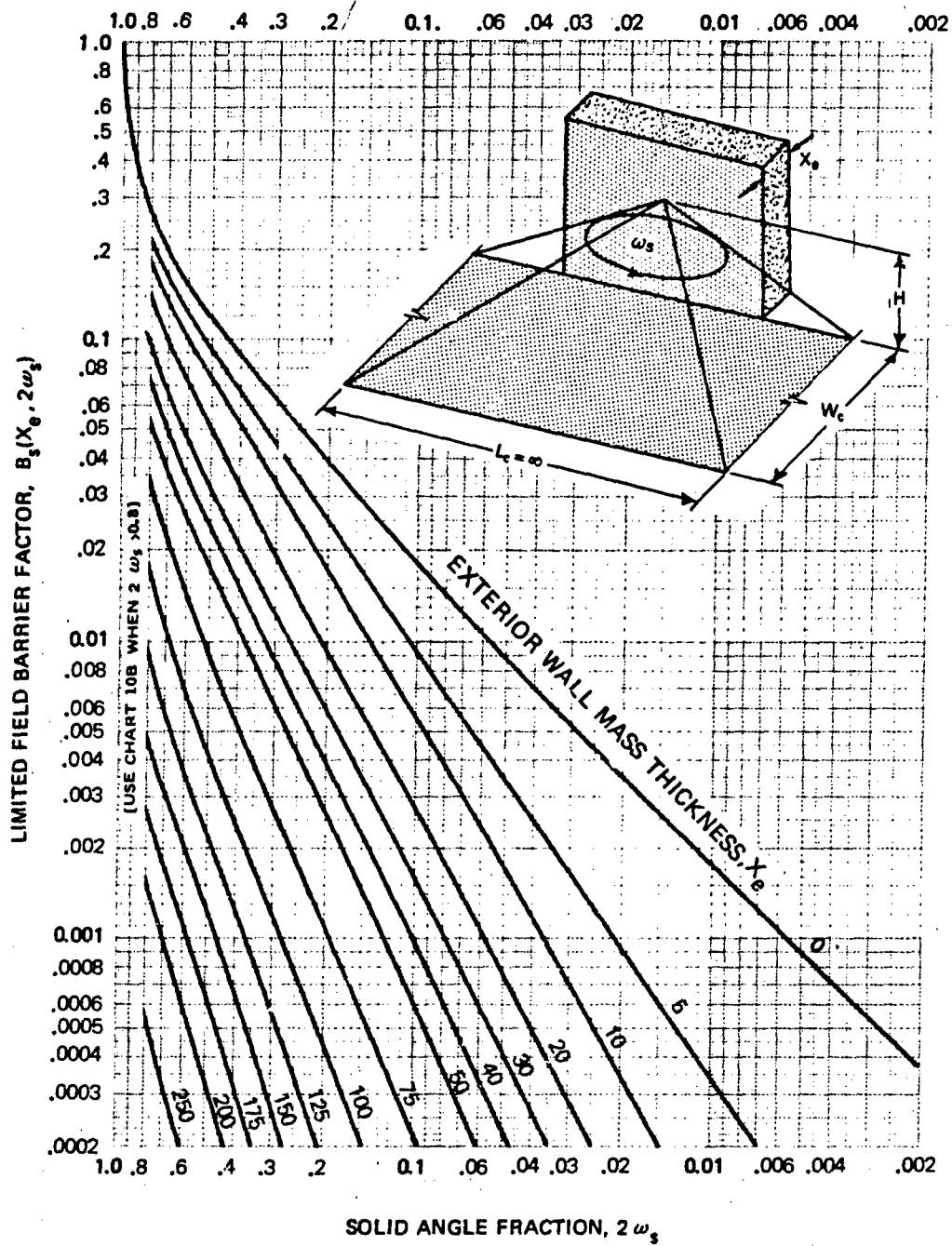
C-13

SOLID ANGLE FRACTION, $2\omega_s$

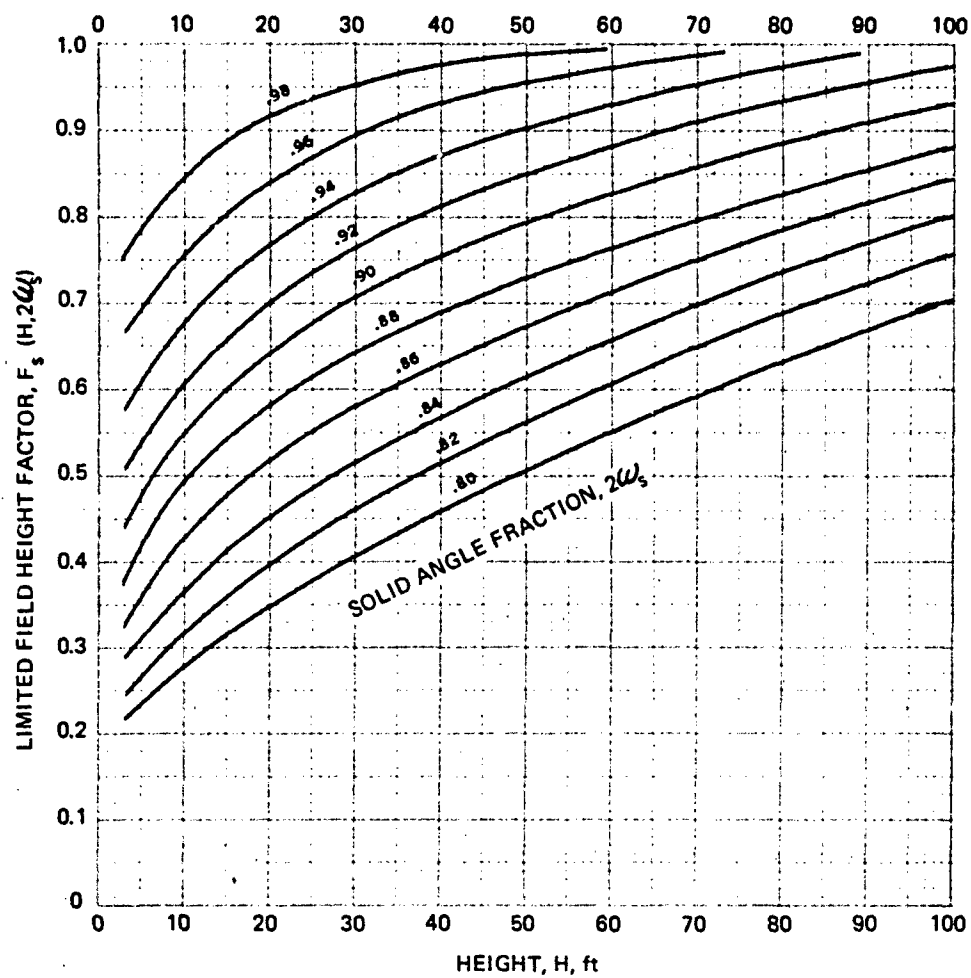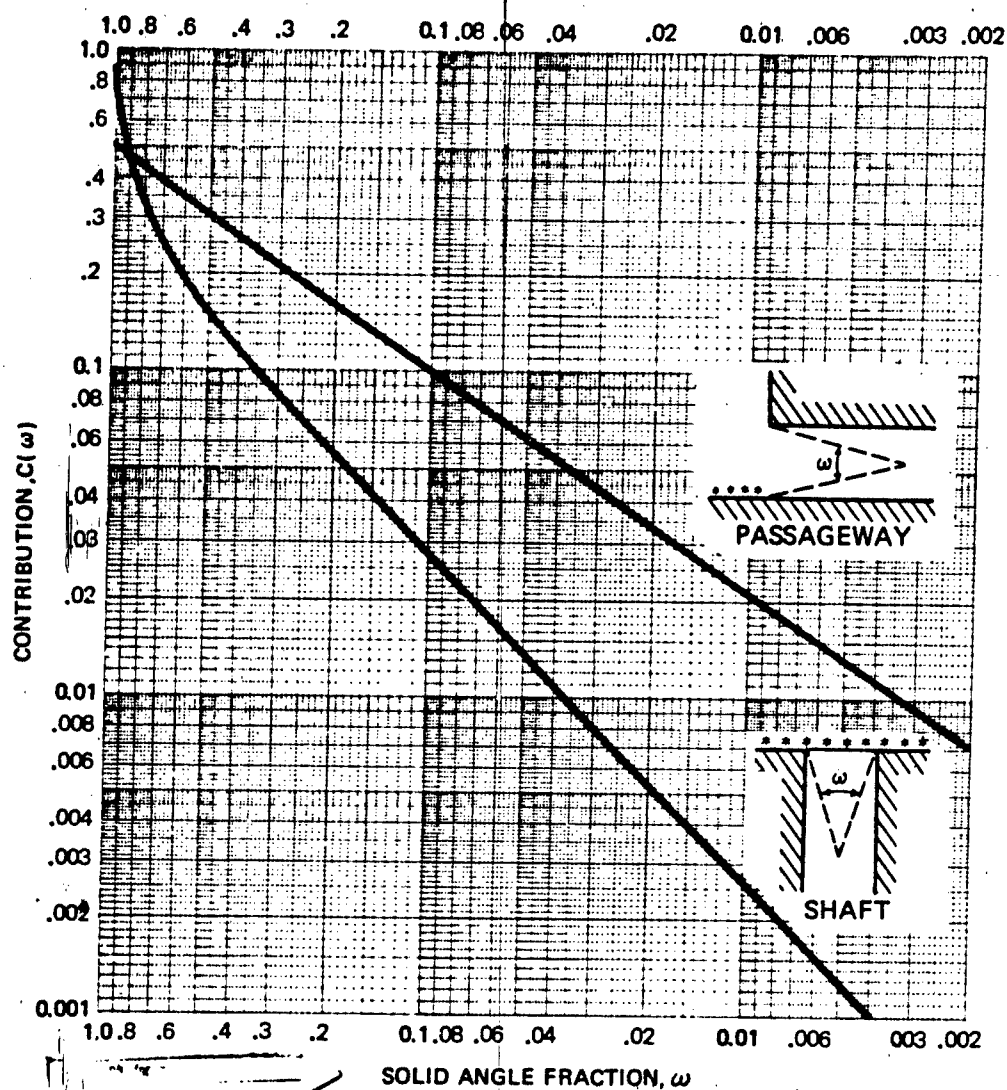CHART 10A

LIMITED FIELD BARRIER FACTOR, $B_s(X_e, 2\omega_s)$

C-14

CHART 10B

LIMITED FIELD HEIGHT FACTOR, $F_s(H, 2\omega_s)$

$$B_s(X_e, 2\omega_s) = F_s(H, 2\omega) \cdot B(X_e, H)$$

CHART 11

PASSAGEWAYS AND SHAFTS, C(ω)

Axis labels:

CONTRIBUTION, C(ω)

SOLID ANGLE FRACTION, ω

PASSAGEWAY

SHAFT